

# Recovery Plan Action Status

Plan Name: Concho Water Snake

Plan Status: Final

Plan Date: 27-Sep-93

Lead Agency: USFWS

Lead Office: Austin Ecological Services Field Office

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490-0057 )

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Concho water snake (Nerodia paucimaculata)	2	1.1	Monitor hydrology and physical habitat rangewide	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Geological Survey, Texas Parks and Wildlife Department, Colorado River Municipal Water District	Management: Habitat Maintenance and Manipulation	Internal Administrative	Same costs estimated for all following years. FWS-ES costs = 2K/year. CRMWD costs = 10K/year. TPWD costs = 2K/year. USGS costs = 81K/year.
Concho water snake (Nerodia paucimaculata)	1	1.2	Protect and assure adequate instream flows rangewide	Partially Complete	FY 2008		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Army Corps of Engineers, Texas Parks and Wildlife Department, Colorado River Municipal Water District, Texas Water Commission	Management: Habitat Maintenance and Manipulation	Labor type not yet selected	Same costs estimated for all following years. FWS-ES costs = 2K/year. CRMWD costs = 5K/year. TPWD costs = 1K/year. TWC costs = 40K/year. USACE costs = 5K/year.
Concho water snake (Nerodia paucimaculata)	2	2.1	Establish monitoring sites rangewide	Ongoing Current	FY 2009		U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department	Management: Population Monitoring	Contract, Internal Administrative	FWS-ES costs = 18K. TPWD costs = 7K.
Concho water snake (Nerodia paucimaculata)	2	2.2	Monitor 40 sites for 10 years	Obsolete			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Colorado River Municipal Water District	Work type not yet selected	Labor type not yet selected	CRMWD only for 1st 3 years & subset of sites; CRMWD work includes monitoring required under 7; 18/yr for all following years split by FWS & TPWD. FWS-ES costs = 5K/year. CRMWD costs = 10K/year. TPWD costs = 5K/year.

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Concho water snake (Nerodia paucimaculata)	2	2.3	Assess and abate threats to water quality	Obsolete			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Environmental Protection Agency, Texas Parks and Wildlife Department, Colorado River Municipal Water District, Texas Water Commission	Work type not yet selected	Labor type not yet selected	Same costs estimated for all following years. FWS-ES costs = 2K/year. CRMWD costs = 2K/year. TPWD costs = 2K/year. TWC costs = 2K/year. USEPA costs = 2K/year.
Concho water snake (Nerodia paucimaculata)	2	3.1	Enforce existing laws and regulations	Not Started			U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Army Corps of Engineers, Texas Parks and Wildlife Department, Colorado River Municipal Water District, Texas Water Commission	Other: Law Enforcement	Internal Field Assistance	Same costs estimated for all following years. FWS-LE costs = 1K/year. CRMWD costs = 3K/year. TPWD costs = 1K/year. TWC costs = 20K/year. USACE costs = 1K/year.
Concho water snake (Nerodia paucimaculata)	2	3.2	Protect through section 7 consultation	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Federal Agencies	Other: Regulations	Internal Administrative, Internal Technical Assistance	Same costs estimated for all following years. USACE: CWA 404, USEPA: FIFRA & CWA. FWS-ES costs = 5K/year. USACE costs = 3K/year. USEPA costs = 3K/year.
Concho water snake (Nerodia paucimaculata)	3	4.1	Evaluate & reintroduce snakes above San Angelo	Obsolete			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Bureau of Reclamation	Work type not yet selected	Labor type not yet selected	FWS-ES costs = 2K/year. BR costs = 25K/year. TPWD costs = 2K/year.
Concho water snake (Nerodia paucimaculata)	3	4.2	Evaluate & reintroduce snakes above San Angelo	Obsolete			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department, Bureau of Reclamation	Work type not yet selected	Labor type not yet selected	FWS-ES costs = 1K. BR costs = 5K. TPWD costs = 1K.

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Concho water snake (Nerodia paucimaculata)	3	4.3	Evaluate sites rangewide, reintroduce, monitor 10 years	Obsolete			U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department	Work type not yet selected	Labor type not yet selected	Future costs same as year 3 for following 9 years. Costs may be higher if habitat enhancement needed. FWS-ES costs: FY1&2 = 3K/year. FY3 = 2K. TPWD costs: FY1&2 = 3K/year. FY3 = 2K.
Concho water snake (Nerodia paucimaculata)	2	5	Translocate and monitor snakes among Concho, lower Colorado & upper Colorado rivers	Ongoing Current	FY 1995 - FY 1999		Colorado River Municipal Water District	Management: General	Contract, Internal Field Assistance, Species Expert	5 yr cycle starts 1995. 8/yr for cycle years 2, 3, 4, 5
Concho water snake (Nerodia paucimaculata)	3	6	Develop and implement post-recovery monitoring plan	Ongoing Current	FY 2009		U.S. Fish and Wildlife Service, Ecological Services Division, Texas Parks and Wildlife Department	Management: Population Monitoring	Contract, Graduate Student	USFWS 35 total TPWD 10 total for 5 years post-recovery.